

NEWS DIGEST

Reagan takes oath for 2nd term in office

WASHINGTON (AP) — Ronald Wilson Reagan, standing on the landing of the White House grand staircase, swore the presidential oath for a second term Sunday before 96 guests and a national television audience. Outside, icy winds foretold the rigors of today's outdoor ceremony when Reagan renounces his swearing-in with public pomp and a declaration of "American renewal."

The Republic's 50th Inauguration was the sixth to fall on a Sunday. Tradition held that the pageantry would come Monday, and allowed the president to relax and watch the Super Bowl with 100 million other Americans.

Presidential spokesman Larry Speakes said today's inaugural speech — to be delivered from the West Front of the Capitol — will look forward to "an American renewal, continuing America's proud and revolutionary tradition."

Vice President George Bush was sworn in a minute before Reagan, with his friend, retired Supreme Court Justice Potter Stewart, returning from New Hampshire to administer the oath.

Chief Justice Warren E. Burger administered the oath to Reagan.

Reagan and Bush stepped outside, where the wind-chill factor was minus-22 degrees Fahrenheit, to pose for pictures and answer a few questions.

Asked what he hopes for in a second term, Reagan said, "Well, I hope it's a little warmer."

Asked if it would be different the second time around, Reagan replied, "It always is, isn't it?"

Lie detector results on Miller not valid

LOS ANGELES (AP) — Results of a lie detector test given to former FBI agent Richard W. Miller, who is accused of spying, cannot be valid because of the FBI's intensive interrogation procedures, a polygraph

expert says.

Miller, the first FBI agent ever to be charged with spying for a foreign government, is attempting to suppress potentially incriminating statements he made during interviews in the three days before he was actually charged.

"Any reasonably competent and experienced government polygraph examiner should have known that he could not rely upon the results of those tests," University of Utah polygraph expert David C. Raskin said.

High school senior shoots self on stage

ARLINGTON, Texas (AP) — A high school senior who climbed onto a classroom stage and killed himself with a sawed-off shotgun as a teacher and four classmates watched had been a good student and showed no apparent signs of suicidal distress, officials say.

James Austin Stailey, 17, a drama student with a flair for jokes, killed himself Friday

afternoon after asking the others in the room "heavy philosophical questions" about the meaning of life, said police spokesman Jim Willett.

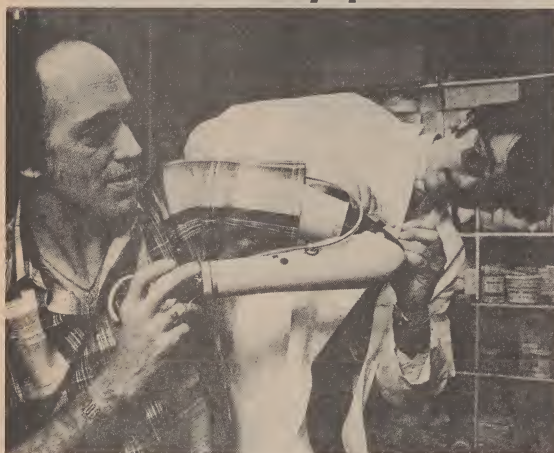
He had led the lead in the school play, a murder mystery called "The Real Inspector Hound." The performances Friday and Saturday were canceled, and other students at Arlington High School were sent home early after school officials confirmed his death by an announcement over a public address system.

Stailey walked into the school drama room about 1 p.m. Friday, sat on a stool on the small stage, and began asking questions of students and teacher Carla Posey, Willett said.

Stailey then pulled a sawed-off, .410-gauge shotgun from a brown briefcase, placed it against his right temple and pulled the trigger, Willett said.

"It was his nature for him to joke around," said Lt. T. G. Moore, who interviewed some of the students. "So they didn't consider it to be out of the ordinary."

Artificial body parts have ancient history



Larry Campbell, from Roy, Utah, has the miniaturized electronics that control the "Utah Arm" prosthesis. The arm's motion is controlled by the patient's own thoughts.

By TROY H. MCCOMBS
Universe Staff Writer

The development of artificial hearts and artificial limbs mark the fruit of many years of research and testing.

The first permanent artificial heart, developed by Robert K. Jarvik, was developed as a result of 25 years of study and research.

While the air driven Jarvik-7 beats in the chest of the second artificial heart recipient, William Schroeder, further refinements are being planned for the artificial organ.

While much of the research and development of the artificial heart began in the 1960's, the use of artificial limbs, also called prostheses, dates back many centuries.

Encyclopedias catalog the history of artificial limbs. The first known artificial limb, an artificial leg, dates back as early as 300 B.C. Centuries later, the development of prosthetics as a science was originated by the 16th century French surgeon Ambrose Pare.

Early artificial limbs were extremely heavy, but also very ingenious. An artificial leg built in 1566 was composed of wood, with tendon and mortice ankle joints, and a catgut Achilles tendon.

Many advances in upper body prostheses followed World War II. Artificial arms were made light by the use of plastics and glass reinforce-

ments.

The artificial arm was further refined in the 1960's by harnessing electric currents produced when a muscle contracts. This arm is called the myoelectric artificial arm. In most myoelectric arms, impulses from one muscle cause the battery powered arm to bend, while impulses from another muscle lets the prosthesis straighten. Yet other muscles allow the myoelectric hand to open and close.

One of the most efficient myoelectric arms was developed by the University of Utah, under the direction of Dr. Steven Jacobsen. The artificial arm, also called the "Utah Arm," took about seven years to develop, according to Barry Hanover, administrative engineer at the Center for Biomedical Design at the University of Utah.

Hanover said the research began as an experiment to develop the arm. Approximately 200 myoelectric arms have been sold.

Hanover said the future in prosthetics is good, and it will continue to grow. He said the primary limitations would be whether future artificial body parts could be made cost effective. Hanover estimated the total cost of an artificial arm plus maintenance to be around \$30,000. Hanover also said the technology of artificial legs was not as advanced as the myoelectric artificial arm because of the enormous amount of energy required to power a myoelectric leg.

Jarvik artificial heart

Continued from page one

Testing and refining is continuing on a portable heart driver, the Heimes heart driver, used for up to three hours a day with Schroeder. This driver fits in a standard camera case bag and can be worn over the shoulder. It weighs about eight pounds and houses all of the electrical devices for the artificial heart.

It allows the patient to walk around, shower and do mild exercise, but only for a limited amount of time. The batteries last about six hours and then it is necessary to recharge or replace them. The Food and Drug Administration will only allow the Heimes driver to be used for three hours a day with Schroeder, said Irvine.

The Heimes driver is lightweight and easily maneuvered in comparison with the larger drive. It would allow the patient the freedom of going for a ride in a car.

The power system was invented and designed by Dr. Peter Heimes of Germany where he is continuing to refine it. Heimes began development of the system in 1977 and has been testing it in animals in Utah since 1979.

The ultimate research goal of developing an artificial heart with an internal power system, such as batteries, appears to be many years in the future, but progress is being made toward realization of that goal. Gajkowski said, "There are other models being considered, others that, in theory, could be superior to the Jarvik-7 because they have fewer

movable parts and self-contained power sources with external controls."

Research is also being done to test the feasibility of using the artificial heart temporarily in persons who need transplants while waiting to find a donor heart, he said.

Dr. Willem J. Kolff, director of the Institute of Biomedical Engineering and head of the Division of Artificial Organs at the University of Utah, is a pioneer in the field of artificial organs. He began work with the artificial heart in 1957.

"I think in the near future there will be more emphasis on left and right ventricle assist devices which leave the sick heart in place until a donor for transplant is found," he said.

"These assist pumps should be inside the chest and for the time being should be driven by compressed air." He also added that there is a place for the totally artificial heart that is driven by compressed air.

"Mechanically driven artificial hearts, although a good one is available with Dr. Pierce at Hershey, Penn., will not be available in any quantity in the near future" because they are too difficult to make, said Kolff.

"In the future we will be able to build as many artificial hearts as needed, but we'll never have enough hearts for transplants," he said. "But for the 50,000 dying for a desperate need for either a donor heart that is transplanted or an artificial heart, it is of no help that something will be available five years from now."

Jewish spokesman will speak at forum

Noted author Elie Wiesel, acclaimed as one of today's most gifted writers and renowned spokesmen for the Jewish people, will be Tuesday's forum speaker.

Speaking on the topic "Lessons for the Present from the Jewish Past," Wiesel will discuss some of his experiences, including his teenage years when he was taken from his home in Sighet, Hungary, to the Nazi concentration camps at Auschwitz and Buchenwald.

THE DAILY UNIVERSE

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Peak wind speed: 11
mph, 4:20 p.m. Sunday

High humidity: 98 per-
cent

Low humidity: 52 per-
cent

Precipitation: none
Month to date: 73 inches
Since Oct. 1, 1984: 7.37
inches

Jarvik artificial heart

Continued from page one

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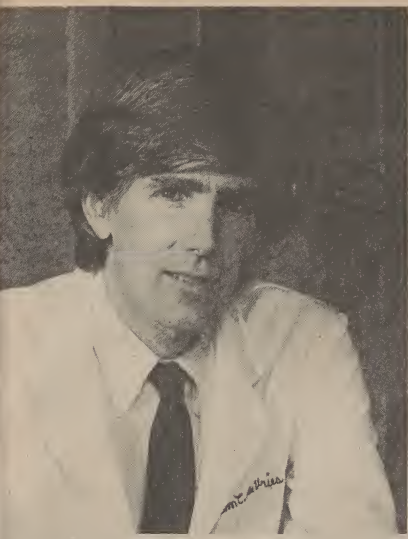
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DeVries continues heart implants



Dr. William DeVries performed the first artificial heart implant on Barney Clark in December 1982.

By MARK BREWER
Universe Staff Writer

Utah lost a share of its national limelight when noted surgeon Dr. William DeVries accepted a position with Humana Hospital Audubon in Louisville, Ky.

DeVries is the only surgeon authorized by the Food and Drug Administration to implant an artificial heart into a human body.

DeVries performed the first artificial heart implant on Dr. Barney Clark in December 1982 at the University of Utah's Medical Center. He has since performed a second

operation on William Schroeder at Humana, Ky.

DeVries' departure from Utah's lack of funding. When Humana volunteered to foot the bill for as many as 100 future heart recipients, at a cost of \$25 million, DeVries was ready to pack his bags for Louisville and Humana Hospital Audubon.

According to a recent article by United Press International, DeVries was also upset that the University's Review Board took so long to review a case. It took two years for permission to implant the artificial heart in

Dr. Clark, and another year until approval for a second implant was granted. Meanwhile, the FDA had approved six more such implants.

John Dwan, director of community relations for the University's Health Science Center, acknowledged that DeVries had been bothered by "bureaucratic delays." Dwan identified the major delay at the medical center as lack of funding.

"The major holding up of this program is money," Dwan said. "We had great difficulty in putting together the finances for Dr. Clark."

According to Dr. Don E. Detmer of the medical center, about \$2 million is needed to continue human experimentation.

"DeVries' leaving only interrupted the human experimentation program," said Dwan. "However, the research and development program continues and is stronger than ever. I would say that it is fairly certain that we will do artificial heart implants here in the future."

While the University of Utah seems satisfied with their program despite the loss of a top surgeon, DeVries is excited about his move. He is involved in the planning, research and testing phases of the program at Humana. In a recent Time magazine article, he said, "I have been able to set up this project exactly the way I wanted to, and what's more important, I have been able to select the patient without consideration of whether he can pay his bill."

Humana's willingness to donate almost limitless funds into the artificial heart program will not only benefit research for the Jarvik heart, but will likely accelerate research being done on the other dozen or so artificial heart models that are presently being tested in animals.

Renowned heart firm

DeVries' decision to stick with the Jarvik heart is a story in itself. DeVries and Jarvik worked together under Dr. Willem Kolff in the artificial organs division at Utah.

Marsha Hansen, administrative assistant to Jarvik, said the association was enlarged when Kolff and Jarvik started research and development of an artificial heart, hoping to perfect it to a point where it could be sold. They now call their company Symbion, Inc., and it is headquartered in Salt Lake.

Symbion is recognized as the world leader in artificial heart research and

has exclusive licensing rights with the university's artificial organs division. Symbion is most noted for their development of the Jarvik heart series, but also does research and testing on the Ineraid artificial inner ear.

Although the Jarvik heart has received the most attention, the Ineraid system is closer to being ready for market.

Hansen said that extensive testing is being done on the artificial heart and ear ready to market. "We need to prove to the FDA that the heart and ear are reliable and long-term products. We have to meet every requirement and regulation that they impose," she said.

Donald Grabarz, newly hired vice president in charge of quality assurance and regulatory affairs, is working to assure that the company not only develops a reliable, credible product, but that it becomes a symbol of assurance in the medical field, Hansen said.

According to a briefing memorandum issued by Jarvik in behalf of the company, "Symbion will not be responsible for patient selection, for medical decisions, or for the direct care of the patients. However, we will closely monitor the progress at Humana Hospital Audubon and will support Dr. DeVries and his team in any way we can, including providing consultation at his request."

Jarvik heart developments

Symbion is currently involved in the training of select groups of surgeons to familiarize them with the Jarvik heart and its systems, including its implantation. Hansen said they are working to establish this relationship with some undisclosed European surgeons also.

According to Jarvik, Symbion, Inc. is the sponsor of clinical testing using the artificial heart and related equipment approved for use by the FDA. The Jarvik heart, presently uses the Symbion Utahdrive unit to drive the heart. One of the technological advances the future holds will be the implementation of the Heimis drive unit.

The Heimis model, according to the memorandum, is more compact and exerts a more natural pressure upon the artificial valves than its counterpart, the Utahdrive. It is manufactured by a Symbion subsidiary in Germany under license from the Technical University of Aachen, West Germany.

1 in 15 Americans works for government

WASHINGTON (AP) — One American in every 15 now works for the government, and state and local employment rolls have continued to grow despite a leveling-off of the federal workforce, the Census Bureau reported last week.

State governments increased their employee rolls by 7.2 percent to 3,744,000 between 1977 and 1982, according to the new Compendium of Public Employment published by the bureau.

During the same period, the number of people working for local governments grew 0.3 percent to 9,249,000 while the federal civilian workforce held steady at 2,848,000.

Overall, that brought the number of Americans working for some unit of government to approximately 15.8 million, or one in every 14.6 people. It was a slightly lower ratio five years earlier, 1977, when governments employed one American in 14.2.

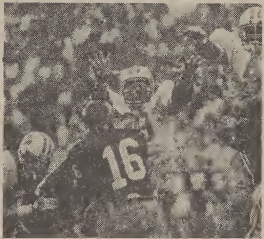
Those holding civilian government jobs were among 100 million Americans employed in the fall of 1982.

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Artificial body parts being studied

U of U considered 'world leader' in research

By BRIAN WEST
Universe Staff Writer

"Steve Austin — astronaut. A man barely alive. We are rebuilding him. We have the technology."

Although television's bionic characters may still be categorized as science fiction, artificial and replaceable body parts are not.

The artificial heart, developed in Salt Lake City, has been a dinner-table topic in most every home in the United States, and in many parts of the world. Publicity from the recent heart implantations, however, has overshadowed much of the research and accomplishments of many other artificial body parts.

Artificial limbs, organs, blood, fibers, teeth, skin, blood vessels, bones, joints, muscles, and ears are just a few of the many different artificial body parts being researched and developed today.

News magazines have reported several stories about research with artificial body parts. Florida researchers have developed tiny artificial inner-ear bone replacements with material called "Bioglass." Boston researchers have developed a skin substitute for severe burn patients made from a mixture of cowhide, shark cartilage and plastic.

Canadian researchers have developed artificial skin which, they say, when rolled up in sheets is similar to "Saran Wrap." These and many other recent strides in developing artificial body parts make the future seem right around the corner.

Utah has become the focus where much of the development of artificial body parts is taking place. The University of Utah is considered the "world leader" of artificial body parts because of the number of research projects that go on there, said Pam Fogie, science writer for the University of Utah News Service.

Many people are already benefiting from artificial body parts developed at the U of U. One example is the Ineraid artificial ear, designed by researchers at the University of Utah Institute for Biomedical Engineering in cooperation with Symbion, a Salt Lake company which also manufactures the artificial heart.

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Artificial hearing

The goal of artificial hearing, according to Dr. Donald K. Eddington, former director of the U of U artificial hearing program, is to turn acoustic wave forms of speech into electronic forms. The electronics stimulate non-functioning nerve fibers and the brain recognizes speech.

The artificial hearing system is designed for approximately 165,000 people in the United States whose deafness is related to a sensory loss. "With Ineraid there is great potential to help the deaf in the United States," said Lisa Purcell, special projects coordinator at Symbion.

Ineraid is powered by a "Walkman"-size battery sound processor. It is connected by a cable to six tiny electrodes implanted in the inner ear, and performs the hearing-related functions that were once generated by a room-sized computer. Research has begun to miniaturize the device further so that it will weigh only two ounces.

Ineraid will have more of a specific impact than the artificial heart.

People benefited

"Basically, because more people can be

benefited, it's not as expensive, and there aren't as many moral questions involved," Purcell said. Ineraid recipients also have more mobility than the artificial heart recipients.

Many other artificial body parts are being carefully researched and studied before they become operational. Stephen K. Hunter, a graduate doctoral student in the Department of Pharmaceutics at the U of U, has been working on the idea of an artificial fallopian tube for the past year and a half.

"Tubular blockage is the number one cause for female infertility in the United States," Hunter said. Any one of the 500,000 women in the United States who desires to get pregnant and have this problem could be helped by this device, he said.

Like many other projects, the artificial fallopian tube must be tried and tested thoroughly. The best and least harmful material of the tube itself is currently being studied, as well as surgical techniques. Hunter said so many details need to be evaluated that he cannot predict when a human implantation might occur.

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- VALUABLE COUPON -

SPORTS

Cougar cagers top CSU to stay in WAC title race

By MARK CARPENTER
Asst. Sports Editor

The BYU basketball team wrapped up its four-game road swing with its third consecutive victory, a 65-64 upset win over conference-leading Colorado State in Ft. Collins, Colo., Saturday.

The key to the win can be stated in one word — defense. The Cougars disrupted the Rams' offense with both a stingy man-to-man defense and a tight zone, holding CSU to 46 percent shooting for the game.

"This was certainly our best defensive effort of the year," said BYU coach Ladell Andersen. "Our offense played well, too."

"They made several runs at us, and we always came back and got a hoop to put us up by two or four."

The defensive climax came in the last 36 seconds. Cougar forward Timo Saarelainen had just given BYU a one-point lead with a baseline layup when CSU called time out.

"You just have to guess in situations like that," said Andersen. "We don't know what's going on in their huddle."

The Cougars guessed the Rams would try to get the ball to guard Todd Benn, who had hit several long range shots to keep CSU close. Senior defensive leader Scott Sinek denied Benn the ball as CSU elected to go for the win with one last shot.

The Rams never got the ball close to Benn in those last seconds though, and center Mike Gray was forced to take a jump shot from 16 feet with four seconds showing on the clock. The shot fell short, and BYU's Marty Perry grabbed the rebound as time ran out.

"Sometimes they get lucky on those, and they bank in," said Andersen. "It worked in our favor tonight."

Excellent second-half shooting by both teams set up the final seconds of drama. After hitting for less than 40 percent of their shots in the first half, the Cougars went into the locker

room with a 27-23 halftime lead.

The two teams traded baskets early in the second half as the Cougars' lead fluctuated between two and four points until a tip-in by Alan Pollard gave BYU a 59-53 lead with 5:05 left in the contest.

But the Rams came back with a free throw by forward Rich Strong, a follow by Mick DeLavalade and a field goal by Benn to cut the BYU lead to one.

After Saarelainen and Benn traded baskets, Strong hit two more free throws to give the Rams their first lead of the second half at 62-61. Tom Gneiting scored for BYU, and Benn hit again for the Rams to set up Saarelainen's winning hoop and the defensive stand.

The Cougars' shooting percentage improved to 58 percent by the time the game was over. Sinek finished the game with 16 points, the third consecutive game in which he scored in double figures. Saarelainen led the team with 24 points, and Gneiting added 10. Perhaps a greater contribution from Gneiting was the 12 rebounds he collected.

"He (Gneiting) has to get 10 rebounds," said Andersen. "We expect it. He worked very hard today, and we're proud of him."

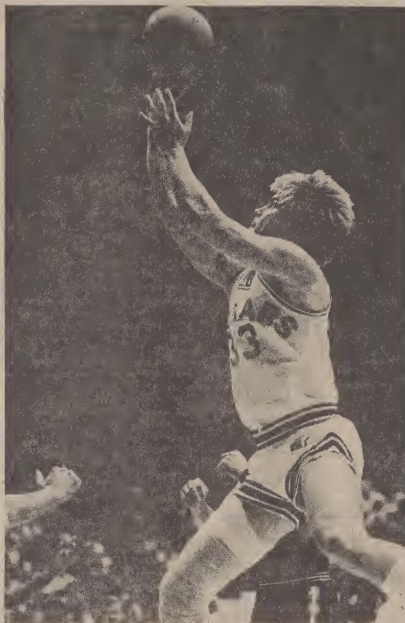
Freshman forward Jeff Chatman contributed to the win when the Cougar front line got into foul trouble early in the contest.

"Chat's been very dependable for us," said Andersen. "We got in foul trouble, and he filled in well."

The win lifts BYU to 4-2 in WAC play while CSU suffered its first conference setback with a 3-1 record, leaving no undefeated teams in the WAC.

"We've only lost two (in the conference)," said Andersen. "This win puts us back in the WAC race as a legitimate contender."

The Cougars continue conference play this week, facing the Wyoming Cowboys in the Marriott Center Thursday and traveling to Salt Lake City to face Utah Saturday.



Forward Timo Saarelainen drives in for a jump shot in Cougar action earlier this season. Saarelainen hit a jumper in the final minute of Saturday's game to lift the Cougars to a 65-64 upset of Colorado State.

Universe photo by Doug Lind

Harris overcomes Brown

ATLANTIC CITY, N.J. (AP) — Former Pittsburgh Steelers running back Franco Harris defeated former Cleveland Browns running back Jim Brown in the 40-yard dash Friday to capture a two-day competition.

The "I Challenge You" contest here had its beginnings last year when Brown said on a nationally televised talk show that he could beat Harris in the dash.

Harris, 34, was clocked in 5.10 seconds. The 48-year-old Brown finished in 5.72 seconds. Although each participant won two of four events, Harris won overall because he took the dash.

"Franco beat me fair and square," said Brown, who grabbed his left hamstring during the dash. "I don't have any excuses."

About 1,500 high-rollers were invited to watch the dash and the

one-on-one touchdown competition Friday night at a casino hotel, which installed a makeshift playing field with artificial turf. The contests were televised live in New York and Los Angeles and broadcast on 139 other stations over the weekend.

Harris won the touchdown competition with an 8-yard advantage. New York Giants quarterback Phil Simms threw the passes. Brown won the first two events of the competition on Thursday, defeating Harris in raceball, 11-4 and 11-3, and then taking the basketball event.

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Montana settles issue as 49ers breeze to 38-16 victory over Miami in Super Bowl

STANFORD, Calif. (AP) — Joe Montana, making a shambles of the quarterback showdown with Dan Marino, shattered the Miami Dolphins' defense with his passing and scrambling and led the San Francisco 49ers to a 38-16 victory in Super Bowl XIX Sunday.

Montana passed for three touchdowns, ran for another and was voted the game's most valuable player, matching the award he won in San Francisco's 26-20 victory over Cincinnati in Super Bowl XVI.

He had exemplary help from Coach Bill Walsh's bag-of-tricks offense; from fullback Roger Craig, who caught two TD tosses for a record third score, and from a defense whose pressure on Marino exceeded anything a Dolphin opponent had been able to do in this record-breaking season.

Marino was intercepted twice and sacked four times. In two NFL seasons, Marino had not been sacked more than three times; he had been dumped only 13 times in 18 games this season and not at all in two playoff games.

The game was portrayed as a dream contest be-



tween the NFL's two best teams, but the 49ers were the better.

And for this day at least, so was Walsh in his "genius" match with Miami's Don Shula.

In fact, the game was competitive only in the first period.

Miami took a 3-0 lead on the first of three field goals by Uwe von Schamann, lost it on a 33-yard TD pass from Montana to reserve running back Carl Monroe, then got it back again on a brilliantly executed six-play, 70-yard drive engineered by Marino.

But that 10-7 first quarter lead lasted only until

Montana got the ball back. By halftime it was 28-16, by midway through the third period 38-16. That was fine with most of the 84,059 fans in Stanford Stadium, just 30 miles south of the 49ers' home base at Candlestick Park.

But there were other heroes besides Montana. His offensive line allowed him to be sacked only once and more often than not, he could have been in a rocking chair, looking around for receivers. When there were no receivers open, he simply took off.

Montana said he never planned to run with the ball against the Miami defense. As it turned out, he rushed for more yardage than the entire Dolphin offense. "None of it's by design," Montana said Sunday after rushing five times for 59 yards and a touchdown compared to the Dolphins' nine rushes for only 25 yards. "Oh, occasionally, there is a set play when I run, but most of the time it's just something that happens. A play breaks down, a big hole just opens in front of me and I just take off."

"Without a doubt, this is the best football team in the National Football League today," Walsh said. "I think it's one of the best teams of all time."

Men gymnasts drop meet to nationally-ranked ASU

The BYU men's gymnastic team fought off minor injuries but scored its highest point total of the year in a tough loss to No. 5 Arizona State.

The Sun Devils won the match with a final score of 279.45 to the Cougars' tally of 274.30.

ASU came into the match riding the momentum of a big victory over UCLA, then took it to BYU behind the brilliant performance of freshman Dan Hayden. Hayden, an alternate for last summer's U.S. Olympic team, showed why he is highly regarded, finishing first in the all-around competition with a score of 5.55.

BYU was led by outstanding per-

formances from All-America candidate Bob Gauthier and Robert Allen. Gauthier took second in the all-around with 57.10, while Allen grabbed third with a score of 55.45.

Gauthier took top honors on the pommel horse and second on the high bar. He also scored 9.4 on the floor, 9.60 on the still rings and 9.65 on parallel bars.

BYU's other All-America candidate, John Innocentini, shined on his specialty, the still rings. One of the smallest competitors in the meet, Innocentini electrified the crowd with a spectacular routine and a 9.8.

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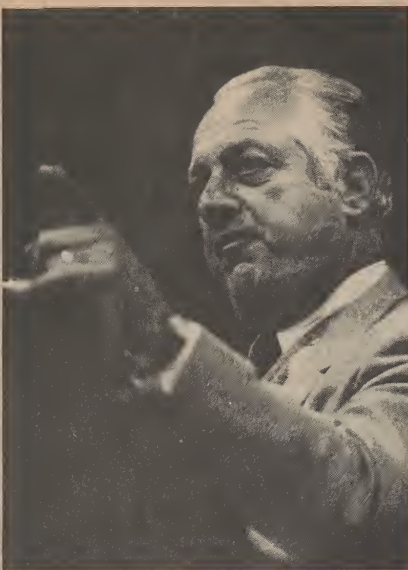
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Los Angeles Dodgers' manager Tommy Lasorda speaks to youth assembled in the Smith Fieldhouse during a special baseball clinic.

Lasorda speaks to youngsters

By GORDON TREADWAY
Universe Sports Writer

Los Angeles Dodgers manager Tommy Lasorda entertained a baseball-hungry crowd of 1,800 Saturday in the Smith Fieldhouse, telling youngsters to believe in themselves and parents to "love and support" their children.

Most of his speech was directed at the young athletes in the audience, attempting to inspire them to continue their education.

"I want you young men to realize how important a college education is," he said. "If I was a college coach I would make sure my ball players got an education."

"It's great to have aspirations, but don't put all of your eggs in one basket. Then you have nothing to fall back on," Lasorda said.

No matter what skills or talents anyone lacks, the important thing to possess is self-confidence, Lasorda said. With self-confidence, whatever one wants to do, he can do.

Lasorda used his own life to illustrate the importance of self-confidence.

"I always believed that I'd make the major leagues, even when I was a third-string pitcher in high school," Lasorda said. "I told my coach that one day I'd play in the big leagues, and that he'd have to buy two tickets for the other pitchers. I didn't play long, but my dream became a reality."

With self-confidence comes the courage to try. There are three types of people in the world Lasorda said. "One who makes it happen, a person who watches it happen, and one who wonders what in the world happened. Don't be the person who spends his time wondering and lets it pass him by."

Lasorda turned his speech to the parents and addressed a problem that he sees as a lack of love in America.

UTEP, Lobos tied for first in WAC

Since last Monday the WAC basketball race has tightened up quite a bit.

Not only has every team lost at least one conference game, but the title is almost in reach of all nine of the teams.

At the beginning of the week San Diego State gave some people the idea it was going to walk through the conference and take the WAC crown without much resistance.

After clobbering BYU 89-70 the Aztecs looked almost unbeatable against conference foes until New Mexico beat them 94-85 last Friday.

On Saturday, Johnny Brown scored 20 points, and George Scott added 16 to spark New Mexico to an easy 86-60 victory over Hawaii in Albuquerque. The Lobos now own a share of the WAC lead with UTEP.

After San Diego State's loss to New Mexico it hoped to get back on the winning track Saturday against UTEP, but the Miners had plans of their own.

Miner guard Luster Goodwin's 26 points were one of the main factors in UTEP's 87-81 win over SDSU. UTEP and New Mexico are now both 5-1 in the WAC.

Also on Saturday, Utah met Wyoming in Laramie with the Cowboys coming out on top 69-60 in overtime.

Edwin Moses charged with solicitation in LA

LOS ANGELES (AP) — Despite his claim of having "done nothing wrong," two-time Olympic gold medalist Edwin Moses was charged Friday with soliciting a female police officer for prostitution.

Deputy City Attorney Mike Wilkinson made the announcement, saying that Moses would be arraigned Jan. 29 on the misdemeanor charge, which carries a maximum penalty of six months in jail or a \$1,000 fine or both.

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A lecture by Dr. Stanford J. Layton, Coordinator of
Publications, Utah State Historical Society and Managing
Editor of the Utah Historical Quarterly.

Date: Wednesday,
January 23, 1985

Time: 8:00 p.m.

Place: 251 Tanner Building



Stanford J. Layton

The decade of the 1920s was pivotal for public land policy in the United States. It began with a clear commitment to disposal of millions of acres in relatively small parcels to individual homesteaders. It ended at a crossroads, with the nation again debating the direction of the future.

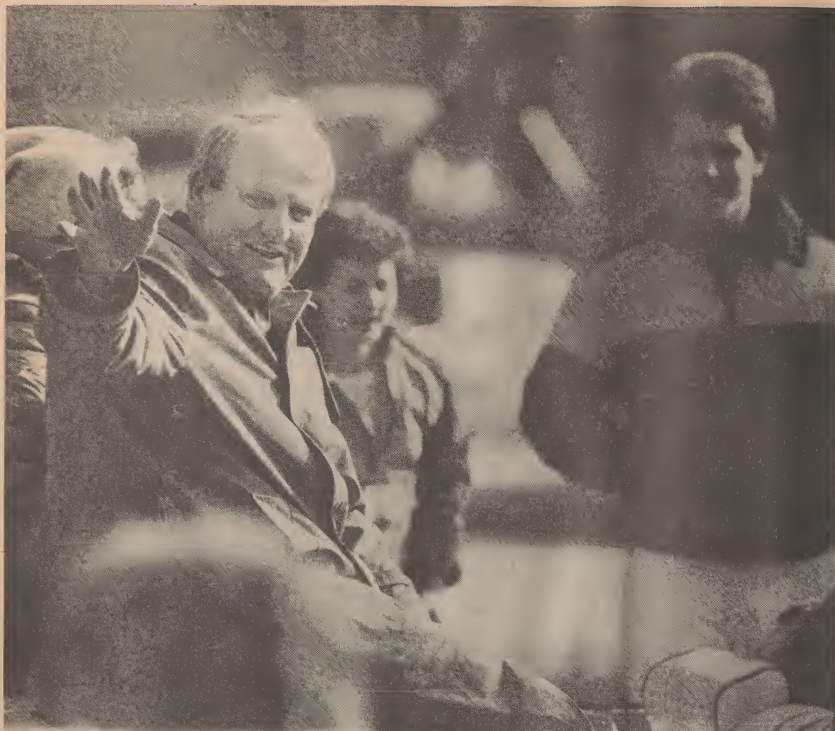
This time, in contrast to the debates of the teens, the issues were more closely linked to actual experiences and the rhetoric was devoid of romantic allusions. It was a serious business from the outset, one that immediately betrayed the highly politicized nature of public resource issues that has come to characterize post-frontier America. This lecture

focuses on key developments — economic, political, and ecological — of the time with a view to understanding the turn toward aggressive federal management of public lands in the modern era.



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Head Coach LaVell Edwards, often referred to these days as 'president', waves to the crowds along University Ave. during Saturday's

parade. The parade was part of a day-long celebration of BYU's national championship in football.



BYU defensive back Mark Allen and his number one fan, daughter Rachel, ride Provo City's antique fire engine during Saturday's parade.

Cougar backers celebrate team's championship

By MARGARET HAMMERLAND
Senior Reporter

The 1984 BYU football season has come to an end. The celebrations honoring the national champions concluded Saturday with a parade down the streets of Provo and a "Thank You Fans" program in the Marriott Center.

Leading the parade were Grand Marshal LaVell Edwards and his wife Patti. Athletic Director Glen Tuckett, BYU President Jeffrey R. Holland, and the 1984 Cougar football team were also in the parade.

Quarterback Robbie Bosco, riding atop a red Porsche, led the procession of football players. The rest of the team followed in two fire engines.

As the parade came to a halt at the City Building, Gene Manning, chairman of Cougar Country Football, conducted a short program during which team captains, Coach Edwards and President Holland, said a few words expressing their gratitude to the fans for their support throughout the season. Provo Mayor James Ferguson presented a key to the city to Edwards as well.

Glen Kozlowski thanked the defense on behalf of the offense saying, "They're the best defense in the country."

He received a resounding round of applause with his concluding comments, which he directed to Bryant Gumbel.

"Eat your heart out baby, 'cause

we're No. 1!"

Edwards said the community's and students' support meant more to him than all the other honors the team received.

"I can assure you nothing has given us a greater thrill than today, and we appreciate it very much," he said. After the parade, the small crowd of Cougar fans were invited inside the City Building for an autograph party.

Several gifts were handed out prior to the evening's program in the Marriott Center, including soft drinks, yogurt, BYU bumper stickers and team posters. It was like a K-Mart blue light special as fans gathered to claim national championship team posters. Fans appeared excited about being able to take home one of the mementos.

Master of ceremonies Glen Tuckett made individual introductions of all the coaches and players. Presentations, proclamations, speeches, cheers, songs and season highlights rounded out the evening. President Gordon B. Hinckley, second counselor in the First Presidency of The Church of Jesus Christ of Latter-day Saints, said no one could fully realize the importance of what the team has done in terms of the favorable publicity for the church. He also commented on his personal feelings about Saturday's program for the national champions.

"I haven't applauded this vigorously since Washington beat Oklahoma," he said.

Teams not bound by rules

SAN FRANCISCO (AP) — Commissioner Pete Rozelle said the National Football League has received letters from the New Orleans Saints and St. Louis Cardinals saying they would not be restricted by NFL guidelines for moving franchises.

"The letters didn't say they were moving, but also said strongly they were not bound to abide by NFL rules," Rozelle said.

On Dec. 21, when the league was considering the financial problems of Leonard Tose, which nearly led the Philadelphia owner to move his franchise to Phoenix, the commissioner set guidelines for teams consider-

ing moves.

They included a requirement that the league be informed of any team's plan to move by Jan. 15. The commissioner said the league could not stop a team from moving but hoped it could make any transfer more orderly with the guidelines.

The letters from the Cardinals and Saints indicated that those clubs did not accept the guideline theory.

The problem of franchises transferring without league approval started when the Oakland Raiders moved to Los Angeles in 1982 and sustained the transfer with federal court decisions over the league.

USFL merge is not likely, says Rozelle

SAN FRANCISCO (AP) — If the United States Football League thinks it can jar the court-weary National Football League into a merger by leveling a \$1.3 billion lawsuit against it, Commissioner Pete Rozelle has some bad news for the younger league.

"I think the USFL is misleading itself," the NFL commissioner said Friday at his annual state of the sport address.

"I haven't heard one NFL owner who thinks it (a merger) makes any sense. They (the USFL) will make it or not on their own."

Rozelle said any expansion from the current 28 clubs to 30 would be decided upon by NFL owners and would not involve USFL teams. "Our clubs will pick their own (new) cities and their own (new) owners," he said.



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378-2771 and ask for Cindy. Call between 8 a.m. and 5 p.m., Monday through Friday.

BC reportedly to face BYU in Classic

BOSTON (AP) — Cotton Bowl winner Boston College reportedly is set to play national champion Brigham Young in the football Kickoff Classic Aug. 29 in the Meadowlands in New Jersey.

The official announcement on the game is scheduled for Feb. 5, but The Boston Globe and WCVB-TV in Boston both reported the matchup was set between BC and BYU.

The Globe said each team has been guaranteed \$550,000, but they could split \$1.6 million if the game is a sellout.

According to the newspaper, Kickoff officials didn't want to invite BYU, but game-by-laws state it has to invite a team from the Western Athletic Conference. Officials wanted Notre Dame as an opponent, but the Irish declined, pleading a difficult schedule.

BC and Ohio State were the next choices, the Globe said, and officials opted for Boston, believing the Eagles promised a passing game even without Heisman Trophy winner Doug Flutie.

Officials also had an eye on the gate in the BC selection, the newspaper said, hoping the crowd of 20,000 fans that followed the Eagles to the Cotton Bowl Jan. 1 was no fluke.

BC Coach Jack Bicknell, while saying he couldn't say anything about the report, allowed that he's "really looking forward to it . . . I'm planning on teasing up."

WCVB, an ABC affiliate, said it confirmed the matchup with four BYU coaches. Bill Flynn, Boston director of athletics, said, "We hope it is official Feb. 5."

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Brimhall Building receives face-lift



The George H. Brimhall Building, currently undergoing a face-lift, has endured five decades of the elements since its dedication by President Heber J. Grant in 1935.

By TOD SANDERS
Senior Reporter

Although the George H. Brimhall Building is one of the oldest structures on the BYU campus, it is one of the least known by the student body.

According to "Brigham Young University, The First One Hundred Years," the building takes its name from one of the university's first educators and presidents.

George H. Brimhall guided BYU through one of its most critical growth stages after becoming the university's president in 1904.

He is remembered as being a driving force behind the increased enrollment and improved facilities the university experienced while still in its infancy.

He was responsible for securing many of the outstanding teachers who helped turn the school into a real collegiate program.

It was an era of experimentation, and Brimhall gave direction to an institution that had not yet completely defined its own identity.

The building had its beginning as a one-story brick structure erected in 1918 at a cost of \$48,000.

Very little remodeling was done until 1935, when two additional floors were added to expand the floor area from 12,574 to 41,673 square feet.

On Oct. 16, 1935, President Heber J. Grant dedicated the building.

Some 15 years earlier, upon releasing Brimhall as president of the university, LDS Church President Grant, praised him by saying, "Under the administration of George Brimhall, that which is

necessary in the making of a Latter-day Saint has existed in the school as perfectly as is given to men to make it."

Situated by the testing center and across from the Joseph Smith Building, the solid brick structure is beginning to show the effects of five decades of harsh Provo weather.

Although the outward appearance may detract from the building's charm and history, the full flavor of the structure can be appreciated by inspecting it at a close range.

Zigzags, a step-like element characteristic of the Art-Deco era in which the second and third floor additions were built, adorn each corner of the building.

The structure's interior is currently undergoing a facelift.

Many of the classrooms on the second and third floors have had the old, discolored floor tile replaced by plush carpeting, and in some rooms comfortable chairs have replaced the wooden desks.

The Department of Design, which is housed on the second and third floors, has had a hand in refurbishing the building.

In trying to conserve the character of the building, the solid-oak doors and handrails have not been tampered with, nor have the terrazzo stairways and landings on the different floors.

"In the past three years a lot has been going on with the remodeling," said Douglas W. Stout, chairman of the Department of Design.

"All of the second and third floors and half of the first have had the walls painted and new lights installed."

Approximately 40 percent of the third floor was gutted a couple of years ago to make room for a modern art studio for design students. The studio contains 80 drawing desks or "student stations."

Prior to the installation of the studio, the Psychology Department used the space for its laboratory experiments with chickens and various other foul-smelling animals. "It used to smell like a barnyard up there," said Stout.

Future remodeling plans call for a lot of electrical work and new heating and air conditioning systems.

The Department of Human Resources Development is now situated on the first floor. But at one time classes in agronomy, bacteriology, landscape design and horticulture were conducted there.

The building was originally called the Mechanic Arts Building and provided facilities for vocational training such as auto mechanics, blacksmithing, and woodworking.

In later years the Lamanite program was housed in the building.

The small garage in the rear of the building was also used by previous university presidents as well as President Holland for a parking space. The garage was partially demolished recently when a garage truck backed into it.

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WASHINGTON (AP) — The Army Clothing and Equipment Board is reconsidering a long-standing military policy that has left generations of soldiers standing wet in the rain.

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'Saints Alive' trying to save world

CORVALLIS, Ore. (AP) — Phil and Sandra Langager, central figures in the Corvallis Saints Alive movement, want to save the world from Mormonism.

"All we want to do is see the naked spires of Mormonism replaced by

crosses. We want all Mormons to come to that saving knowledge of Christ that we know," said Phil Langager, who was a member of The Church of Jesus Christ of Latter-day Saints for 18 years.

The Saints Alive group has gone

door-to-door distributing 8,000 pamphlets that say LDS missionaries will ring doorbells and tell non-LDS Church members that "your creed is an abomination, your pastors are corrupt, your Bible cannot be trusted."

Richard Arnold, president of the Corvallis Stake of the LDS Church, said "I have the sense that the effort is to discredit the church and make it look bad in the eyes of others."

"We are not a mainstream Protestant church, but I do think that should make us the object of ridicule," Arnold said.

The Langagers, together with a committee from 18 conservative Christian churches in Corvallis, organized the distribution of the anti-LDS pamphlets in North Corvallis last week.

The eight-page pamphlet is published by Saints Alive in Jesus, whose founder is former LDS Ed Decker of Issaquah, Wash. The pamphlet calls the LDS church a "cult."

The pamphlets warn that a "flood" of LDS missionaries will be coming to Corvallis, to get members of your church."

The pamphlet says missionaries come into a community after completion of a new church building, such as the one LDS church on Walnut Boulevard in Corvallis.

The pamphlet lists statements missionaries can be expected to make when they come, such as "God is an exalted man of flesh and bone," and "There are many Gods."

Arnold said the statements are simplistic versions of church doctrine. If fully explained, they wouldn't sound so "weird," he said.

For instance, LDS members consider Jesus, the Holy Ghost and God to all be gods, he said. He realizes that to run contrary to the Protestant concept of the Trinity and one god.

Polygamy, the practice of having two or more wives or husbands at the same time, has been outlawed by the LDS church.

One Corvallis stake built the new church building because the congregation needed more room. There will be an open house for the community, but no tidal wave of missionaries, he said.

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Professor Elie Wiesel

Boston University

"Lessons for the Present from the Jewish Past"

Elie Wiesel was still a teenager when taken from his home in Sighet in Transylvania to the concentration camp in Auschwitz and then to Buchenwald. His life and writings are a moving Jewish testament to the death and suffering of the human holocaust wrought by the Third Reich in Nazi Germany.

He gave up to the death camps everything that mattered except life itself: his parents and sister, his innocence, his faith, and—for a time—his very humanity. Now, forty years since those unimaginable horrors, Elie Wiesel will not let the world forget those atrocities.

A "child of genocide," Wiesel has produced works that remind us on the one hand of the worst that men have chosen to inflict on one another, but, on the other hand, his writings call for understanding, for hope, and for justice. In this Forum address he will reflect on the lessons for the present from the Jewish past. Mr. Wiesel has served as Distinguished Professor of Judaic Studies at City College of New York and is currently Andrew Mellon Professor of the Humanities at Boston University.

11:00 a.m.
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Dinosaur death linked to 'Planet X'

TUCSON, Ariz. (AP) — A mysterious Planet X that periodically pulls swarms of comets into a collision course with Earth may have been responsible for the extinction of the dinosaurs, says a new theory.

According to the theory, some of the comets strike Earth, creating vast dust clouds that can change the weather enough to spell death for some species of animals and plants.

Daniel Whitmire, one of the scientists who described the new theory last week at a Symposium on the Galaxy and the Solar System sponsored by the University of Arizona, said Planet X would circle the sun in a shifting orbit outside the nine known planets of the solar system.

The theory by Whitmire and co-author John Matesco, both of the University of Southwestern Louisiana, is an attempt to explain two phenomena — a pattern of fossils that suggests mass extinctions may have occurred on Earth approximately every 26 million years, and unexplained slight variations in the orbits of Neptune and Uranus, the seventh and eighth outermost planets of the solar system.

Criticisms of implants include moral questions

By DANIEL BILLIN
Senior Reporter

The tremendous step forward in technology represented by the artificial heart has brought society face to face with the serious economic and moral questions posed by the enormous cost of the procedure.

The second permanent artificial heart implant performed December 3, 1984 for William Schroeder has renewed criticism that the effectiveness of the procedure and the quality of life afforded its recipients does not justify the millions of dollars spent on research.

A growing number of critics also worry that the already-burdened federal budget will not be able to subsidize the costs of artificial heart therapy, making its benefits available only to the wealthy.

Under a federal program that pays 80 percent of the cost of kidney transplants and dialysis, Medicare currently pays out \$2 billion per year for treatment of \$2,000 kidney patients.

The first permanent artificial heart implant, performed on Dr. Barney Clark in 1982, cost \$200,000, not including the \$16,400 of the artificial heart and its pump.

Estimates of potential heart replacement recipients range from 16,000 to 75,000 per year, with the projected cost of their operations and post-operative care ranging from \$1.6 billion to \$7.5 billion annually.

Although more than 200 heart transplants are performed yearly in the United States, Time Magazine recently reported that medical insurance firms generally decline payment for such operations on the grounds that they are still experimental.

Federal health plans and insurance companies are cutting back on the amount of money paid out for "heroic," or drastic therapeutic measures, according to Dr. Lester Allen, a professor of bioethics at BYU.

"Private medical organizations, such as Humana Hospital (which is funding the cost of Schroeder's operation) may be the answer to high costs—which may mean only the wealthy will be able to pay," said Allen. "That idea raises the hackles of many of us who support an egalitarian society where everyone is entitled to benefits in spite of their social or monetary status."

Barton J. Bernstein, a Stanford University professor and participant in a program on biomedical innovations, said that in the case of the artificial heart, "...condemning to death those who cannot pay would be even more morally troubling, because only the wealthy would benefit from the \$200 million federally funded program that developed the device."

Other critics charge that even when the money is available for heart replacements, the quality of life

afforded the recipient of an artificial heart will not be satisfactory.

"There are serious doubts that the artificial heart will make the lives of heart patients significantly better if it should become widely available," said Bernstein. During the 112 days that he lived after receiving his artificial heart, Clark was often depressed and wished to die.

According to a United Press International article published after Clark's death, Dr. Claudia Berenson, a University of Utah psychiatrist, described Clark's mental condition during most of his hospitalization as clouded or blunted, with his memory impaired.

Berenson was quoted as saying Clark told doctors he wanted to die because "his mind was shot and he would never get better physically."

One of the drawbacks of the artificial heart is that it requires recipients to be connected to an exterior power source, permanently limiting their mobility.

Dr. Christian Barnard, one of the earliest heart transplant pioneers, said, "I love life, but I certainly wouldn't go for an artificial heart. A transplant, yes, but I don't fancy being attached to a machine for whatever life I have left."

As long as Schroeder survives, he will face the danger of infection at both the site where the compressor hoses enter his body and on the surface of the plastic heart. Dr. William DeVries, the surgeon who implanted both Clark's and Schroeder's hearts, said that due to the constant risk of infection and equipment failure, "We live on the edge of possible disaster at any time."

According to Steve Larsen of the Utah Heart Association, the "real answers" to cardiovascular disease do not lie in such heroic measures as transplants and artificial hearts. One-third to one-half of heart disease could be eliminated by preventative health measures, he said.

Dr. Farrell Caltoun, director of cardiology at McKay-Dee Hospital in Ogden, said preventative measures to reduce the chance of heart disease include controlling the following risk factors: high blood pressure, smoking, excess weight, blood cholesterol, diabetes, lack of exercise, and high sodium intake.

"Losing weight, quitting smoking, limiting salt intake — these don't cost anything," said Caltoun. Diabetes control presents the only appreciable cost of those preventative measures, he said, estimating even that cost to be only 5 percent of the cost of heart surgery.

Caltoun said good personal health awareness and care can lower the risk of heart disease 25 percent to 30 percent.

Although no preventative measures can be taken against hereditary risk factors or the higher risk males are subject to, high-risk families are in the minority, said Caltoun.

Potassium diet may help health

MONTEREY, Calif. (AP) — The high-potassium diet of cave-men protects laboratory rats from fatal strokes and kidney failure, and this "prehistoric cuisine" might help modern-day humans as well, an expert on hypertension said Wednesday.

Recent studies of rats with induced high blood pressure found "the high-potassium diet, similar to levels in the diet of present-day hunter-gatherers or of prehistoric humans, affords a remarkable protection against death from strokes as well as kidney damage," said Dr. Louis Tobian Jr.

"There is an excellent chance that a return to

this prehistoric cuisine would greatly benefit hypertensive individuals who are characteristically susceptible to strokes and kidney disease," Tobian said in a paper presented to an American Heart Association forum for science writers.

Maharishi has solution to problems

WASHINGTON (AP) — Sitting quietly, just five blocks from the White House, one of the world's most famous wise men proclaims a simple solution for any military, economic or other troubles the nation might face in President Reagan's second term.

In fact, Maharishi Mahesh Yogi says his plan could turn world chaos into pure coherence, creating a literal "heaven on earth."

All he needs, he says, is 7,000 good men and women, trained in the advanced principles of his already widely practiced Transcendental Meditation, blending their mental efforts a few minutes every day — all together in one place, Washington, D.C.

The diminutive, gray-bearded Maharishi, going strong nearly two decades after his meetings with pop music's Beatles multiplied his cult fame, was in Washington the past week to officially open a new university in the nation's capital.

Maharishi Vedic University will join Maharishi International University College of Natural Law, which already has several hundred students in Washington.

One of the basic laws of nature Maharishi says he's discovered is that 7,000 minds meditating together on such a level — the number represents the square root of one percent of the world's population — can, simply, make everything better.

U.S. capitalism, Russian communism, democratic socialism, it just doesn't matter. He says every system of economics and politics "can begin to bring satisfaction to all people" if such a relatively small group can concentrate its mental and spiritual efforts daily in "this capital of the most creative country of the world, where the destiny of the world is designed day and night."

Still, he added, the nation suffers "a fundamental weakness, a non-alliance with natural law."

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real estate broker, general contractor and real property dealer. He now specializes in developing and building apartment and condominium projects across the country. He is a major national lecturer and trainer in real estate with his down to earth and "realistic" approach to real estate investing. Investing that works, not just talk.



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